

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001564

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl.?: C12N 15/13, A61K 48/00, A61P 31/12, 31/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN On-line File MEDLINE, CA, WPIDS, BIOSIS, #Keywords: Mannan, Polysaccharide, Carbohydrate, DNA, RNA, ?Nucleotide, Oxid?, Conjugat?

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	<p>STRYDOM, S. et. al., " Studies on the transfer of DNA into cells through use of avidin-polylysine conjugates complexed to biotinylated transferrin and DNA", Journal of Drug Targeting, (1993) 1 (2) 165-74. See page 165 col. 1 lines 6-15 and col. 2 lines 1-20 and page 166 lines 10-20.</p> <p>DAVIS, W. C. et. al., " Use of the mannan receptor to selectively target vaccine antigens for processing and antigen presentation through the MHC class I and class II pathways", Annals of the New York Academy of Sciences, (2002 Oct) 969 119-25. See page 120 lines 15-33, and page 122 lines 11-25</p>	1-9, 13, 18, 20, 21, 22
Y		1-9, 13-17, 21, 22, 26-31, 38

Further documents are listed in the continuation of Box C See patent family annex

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"B" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search
10 December 2004

Date of mailing of the international search report

21 DEC 2004

Name and mailing address of the ISA/AU

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, Y	AZZAM, T. et. al., " Dextran-spermine conjugate: An efficient vector for gene Delivery", Macromolecular Symposia (2003), 195(2002 IUPAC World Polymer Congress), 247-261 See page 248 line 29, page 250 line 16, and page 254 lines 1-6.	1-9, 13, 18-22, 26
P, X	KOZLOV I. A. et. al., "Efficient strategies for the conjugation of oligonucleotides to antibodies enabling highly sensitive protein detection", Biopolymers (2004 Apr 5) 73 (5) 621-30. See in particular page 622 col. 1 line 50 to col. line 25, Fig. 3 page 625.	1-9, 13, 22, 26
A	VAUGHAN, H. A. et. al., " The immune response of mice and cynomolgus monkeys to macaque mucin 1- mannan", Vaccine (2000), 18(28), 3297-3309. See whole document.	1-49